Activity 5

```
C:\Users\Larry>docker run --rm -d --name apache -p 80:80 httpd:2.4
Unable to find image 'httpd:2.4' locally
2.4: Pulling from library/httpd
69692152171a: Pull complete
7284b4e0cc7b: Pull complete
3678b2d55ccd: Pull complete
aeb67982a725: Pull complete
06954f8169fd: Pull complete
Digest: sha256:48bae0ac5d0d75168f1c1282c0eb21b43302cb1b5c5dc9fa3b4a758ccfb36fe9
Status: Downloaded newer image for httpd:2.4
dfa1853fdce86fc4f904147bb2ed359c5faf28bc7f58888a6546ad50f11259ad

C:\Users\Larry>curl localhost
<html><body><h1>It works!</h1></body></html>

C:\Users\Larry>cd Documents

C:\Users\Larry\Documents>cd GitHub

C:\Users\Larry\Documents\GitHub>dir
 Volume in drive C has no label.
 Volume Serial Number is 682A-F268

 Directory of C:\Users\Larry\Documents\GitHub

13/06/2021  05:49 pm    <DIR>          .
13/06/2021  05:49 pm    <DIR>          ..
29/11/2020  08:28 pm    <DIR>          198DP
07/02/2021  04:36 pm    <DIR>          capes-portal
24/04/2021  07:28 pm    <DIR>          ME2-Git-and-Maven
18/05/2021  11:42 pm    <DIR>          ME3-OOP
24/05/2021  04:41 pm    <DIR>          ME4-Design-Patterns
25/05/2021  11:35 am    <DIR>          ME5-Structural-Design-Pattern
25/05/2021  07:10 pm    <DIR>          ME6-Behavioral-Design-Pattern
05/06/2021  08:17 pm    <DIR>          ME7_REST_API
13/06/2021  05:50 pm    <DIR>          ME8_Containerization_and_Docker
               0 File(s)              0 bytes
              11 Dir(s)  34,547,314,688 bytes free

C:\Users\Larry\Documents\GitHub>docker cp \ME8_Containerization_and_Docker\5-volumes\index.html apache:/usr/local/apache
2/htdocs
CreateFile C:\ME8_Containerization_and_Docker: The system cannot find the file specified.

C:\Users\Larry\Documents\GitHub>docker cp ME8_Containerization_and_Docker\5-volumes\index.html apache:/usr/local/apache2
/htdocs

C:\Users\Larry\Documents\GitHub>curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

C:\Users\Larry\Documents\GitHub>
```

Creation of new apache container and substitution of provided index.html file into the container

```
C:\Users\Larry\Documents\GitHub>docker volume create myvolume
myvolume

C:\Users\Larry\Documents\GitHub>docker volume rm myvolume
myvolume

C:\Users\Larry\Documents\GitHub>docker volume ls
DRIVER     VOLUME NAME

C:\Users\Larry\Documents\GitHub>docker volume create httpd_htdocs
httpd_htdocs

C:\Users\Larry\Documents\GitHub>docker run --rm -d --name apache -p 80:80 -v httpd_htdocs:/usr/local/apache2/htdocs httpd:2.4
docker: Error response from daemon: Conflict. The container name "/apache" is already in use by container "d3abd793760a1dd97bdc5f3c5139e5573336e8d8d1c4009afdacf3c1f0
25629f". You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.

C:\Users\Larry\Documents\GitHub>docker ps -a
CONTAINER ID   IMAGE       COMMAND             CREATED         STATUS         PORTS                                    NAMES
d3abd793760a   httpd:2.4   "httpd-foreground"  5 minutes ago   Up 5 minutes   0.0.0.0:80->80/tcp, :::80->80/tcp        apache

C:\Users\Larry\Documents\GitHub>docker images
REPOSITORY      TAG        IMAGE ID        CREATED            SIZE
garriz/ping     1.0        c1f553af7c00    51 minutes ago     139MB
lsgarriz/ping   1.0        c1f553af7c00    51 minutes ago     139MB
<none>          <none>     977b103cb116    About an hour ago  139MB
<none>          <none>     b9c0281e7d3d    About an hour ago  170MB
<none>          <none>     14cf9306d808    10 hours ago       170MB
httpd           2.4        39c2d1c93266    2 weeks ago        138MB
ubuntu          16.04      9ff95a467e45    3 weeks ago        135MB

C:\Users\Larry\Documents\GitHub>docker rm d3abd
Error response from daemon: You cannot remove a running container d3abd793760a1dd97bdc5f3c5139e5573336e8d8d1c4009afdacf3c1f025629f. Stop the container before attempt
ing removal or force remove

C:\Users\Larry\Documents\GitHub>docker stop d3abd
d3abd

C:\Users\Larry\Documents\GitHub>docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS     PORTS      NAMES

C:\Users\Larry\Documents\GitHub>docker run --rm -d --name apache -p 80:80 -v httpd_htdocs:/usr/local/apache2/htdocs httpd:2.4
9f281ec78d3a6b5ebbc6b94b0707563ce42524b803eb2a3be63b4c220c971692

C:\Users\Larry\Documents\GitHub>docker cp ME8_Containerization_and_Docker\5-volumes\index.html apache:/usr/local/apache2/htdocs

C:\Users\Larry\Documents\GitHub>curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

C:\Users\Larry\Documents\GitHub>docker stop apache
apache

C:\Users\Larry\Documents\GitHub>docker run --rm -d --name apache -p 80:80 -v httpd_htdocs:/usr/local/apache2/htdocs httpd:2.4
3cd909c77180f10ff087c39116010e670fbce155f85e9f8d59b9ba69dca4d2c8

C:\Users\Larry\Documents\GitHub>curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

C:\Users\Larry\Documents\GitHub>docker stop apache
apache

C:\Users\Larry\Documents\GitHub>docker volume rm httpd_htdocs
httpd_htdocs
```

Mounting volumes on containers exercise

```
C:\Users\Larry\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker run --rm -d --name apache -p 80:80 -v %cd%:/usr/local/apache2/htdocs/ httpd:2.4
736d0a3848451162dbb795e25772abff3d12580c42f5ecdb7c3fdeb39901e8dd

C:\Users\Larry\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

C:\Users\Larry\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>Hi Harvey sana ok ka pa!</h1></body></html>

C:\Users\Larry\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>
```

Mounting directories and demonstration of live updates into container of files.